

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): An optical disc on which wobbled grooves are concentrically or spirally formed, and physical address information is recorded by modulating groove wobbles,

wherein address information is formed by M wobbles per bit as a basic unit, and the address information is NRZ-recorded, where integer M is the number of wobble waves,

wherein a sync signal used in sync detection of the address information is formed by N wobbles per bit as a basic unit, and the sync signal with that configuration is recorded on the head side of the address information, where integer N is the number of wobble waves and $M = 2N$.

Claim 2 (Canceled).

Claim 3 (Currently Amended): An optical disc according to claim [[2]] 1, wherein the sync signal is configured to contain a symbol sequence 010 or 101 which is not present in the address information, and a symbol sequence with a runlength of not less than 1.

Claim 4 (Canceled).

Claim 5 (Currently Amended): An optical disc according to claim [[2]] 1, wherein the sync signal is formed using a pattern, which is selected from signal patterns defined by the configuration of claim 2, and has a largest minimum Hamming distance to all address information symbols and an out-of-phase sync signal among the defined signal patterns and has a smallest number of phase changes in the sync signal.

Claims 6-8 (Canceled).

Claim 9 (Original): An optical disc recording/reproduction apparatus using an optical disc of claim 1, configured to comprise a dedicated detection circuit for detecting the sync signal.

Claim 10 (Currently Amended): An optical disc reproduction apparatus configured to reproduce information from an optical disc of claim 1 ~~on which wobbled grooves are concentrically or spirally formed, and physical address information is recorded by modulating groove wobbles,~~

~~wherein address information is formed by M wobbles per bit as a basic unit, and the address information is NRZ recorded, where integer M is the number of wobble waves.~~

Claim 11 (Original): A mastering apparatus used to manufacture an optical disc of claim 1.

Claim 12 (Currently Amended): A system for recording information on an optical disc of claim 1 ~~on which wobbled grooves are concentrically or spirally formed, and physical address information is recorded by modulating groove wobbles,~~

~~wherein address information is formed by M wobbles per bit as a basic unit, and the address information is NRZ recorded, where integer M is the number of wobble waves.~~

Claim 13 (New): A method for recording information on an optical disc of claim 1, according to said address information.

Claim 14 (New): A method for reproducing information from an optical disc of claim 1, according to said address information.